

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/005,202

DATE: 01/02/2002
TIME: 09:43:36

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01022002\J005202.raw

4 <110> APPLICANT: Allen, Keith D.
6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING INWARDLY
7 RECTIFYING POTASSIUM CHANNEL (Kir5.1) GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-902
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/005,202
C--> 12 <141> CURRENT FILING DATE: 2001-12-04
12 <150> PRIOR APPLICATION NUMBER: US 60/254,888
13 <151> PRIOR FILING DATE: 2000-12-11
15 <160> NUMBER OF SEQ ID NOS: 4
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1257
21 <212> TYPE: DNA
22 <213> ORGANISM: Mus musculus
24 <400> SEQUENCE: 1
25 atgagctatt acggaagtag ctacggatt gtcaatgtgg actccaaata tccaggctat 60
26 cctccagagc atgccatcgc tgagaagaga agagcaagaa ggcgttgct ccacaaaagat 120
27 ggcagctgta atgtgtactt taaacacatt tttggagaat gggggagcta catggttcat 180
28 attttacca ctcttgtgaa taccaagtgg cgccatatgt tcataaatatt ttctctgtct 240
29 tacattctct cctggttgat atttggttcc atatttggc tcatacgctt tcatacaggaa 300
30 gacctattaa gcgatccaga tatcacccct tgtgttgaca acgtgcattc atttacggct 360
31 gcatttttat tctccctgaa gaccagacc accattggat acggttaccg ctgtgtcacc 420
32 gaagagtgtct ctgtggctgt actgacagtg atccttcagt ccatttcctcgttgcatacata 480
33 aacacccattca tcattggagc agccttggca aagatggcaa ctgcccggaa gagagcccg 540
34 accatacgtt tcaatgttattt tgcccttattt ggtatgagag acggaaagcc ttgcctcatg 600
35 tggcgcatag gtgacttccg accaaaccat gtggtagagg gcacgggtgag agcccaactt 660
36 ctgcgttattt cagaagacag tgaagggagg atgacgttgg cggtttaaaga cctcaaaactc 720
37 gtcaatgacc agataatcct ggtaactcca gtgacttattt tccatgaaat tgaccatgag 780
38 agccctctgt atgcccatttgc ccccaaggca gtggccaaag ataatttcga gattctggtg 840
39 acattttttt atactggta ttccacttggg acatcccacc agtccagaag ttccatcatac 900
40 cccagagaaa ttctctgggg ccacaggattt catgatgtat tggaaagtgaa gagaaagtac 960
41 tacaaggtga actgcttgcg gtttgaagga agcgtggaaag tctacgcccc ctttgcagt 1020
42 gccaaacaac tggactggaa ggaccaacaa ctcaacaact tggagaaaac gtccctgccc 1080
43 cgaggatctt gcaattctgaa caccaacacc aggaggccgt ctttcagcgc agttgccgt 1140
44 gtgagcagct gtgagaaccc agaggagacc gtcctgtccc cacaagatga atgtaaggag 1200
45 atgcccatttcccttactt aataggatct ccatggaatc ccagatg 1257
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 419
49 <212> TYPE: PRT
50 <213> ORGANISM: Mus musculus
52 <400> SEQUENCE: 2
53 Met Ser Tyr Tyr Gly Ser Ser Tyr Arg Ile Val Asn Val Asp Ser Lys
54 1 5 10 15
55 Tyr Pro Gly Tyr Pro Pro Glu His Ala Ile Ala Glu Lys Arg Arg Ala
56 20 25 30
57 Arg Arg Arg Leu Leu His Lys Asp Gly Ser Cys Asn Val Tyr Phe Lys
58 35 40 45

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59 His Ile Phe Gly Glu Trp Gly Ser Tyr Met Val Asp Ile Phe Thr Thr
60 50 55 60
61 Leu Val Asp Thr Lys Trp Arg His Met Phe Ile Ile Phe Ser Leu Ser
62 65 70 75 80
63 Tyr Ile Leu Ser Trp Leu Ile Phe Gly Ser Ile Phe Trp Leu Ile Ala
64 85 90 95
65 Phe His His Gly Asp Leu Leu Ser Asp Pro Asp Ile Thr Pro Cys Val
66 100 105 110
67 Asp Asn Val His Ser Phe Thr Ala Ala Phe Leu Phe Ser Leu Glu Thr
68 115 120 125
69 Gln Thr Thr Ile Gly Tyr Gly Tyr Arg Cys Val Thr Glu Glu Cys Ser
70 130 135 140
71 Val Ala Val Leu Thr Val Ile Leu Gln Ser Ile Leu Ser Cys Ile Ile
72 145 150 155 160
73 Asn Thr Phe Ile Ile Gly Ala Ala Leu Ala Lys Met Ala Thr Ala Arg
74 165 170 175
75 Lys Arg Ala Gln Thr Ile Arg Phe Ser Tyr Phe Ala Leu Ile Gly Met
76 180 185 190
77 Arg Asp Gly Lys Pro Cys Leu Met Trp Arg Ile Gly Asp Phe Arg Pro
78 195 200 205
79 Asn His Val Val Glu Gly Thr Val Arg Ala Gln Leu Leu Arg Tyr Ser
80 210 215 220
81 Glu Asp Ser Glu Gly Arg Met Thr Met Ala Phe Lys Asp Leu Lys Leu
82 225 230 235 240
83 Val Asn Asp Gln Ile Ile Leu Val Thr Pro Val Thr Ile Val His Glu
84 245 250 255
85 Ile Asp His Glu Ser Pro Leu Tyr Ala Leu Asp Arg Lys Ala Val Ala
86 260 265 270
87 Lys Asp Asn Phe Glu Ile Leu Val Thr Phe Ile Tyr Thr Gly Asp Ser
88 275 280 285
89 Thr Gly Thr Ser His Gln Ser Arg Ser Ser Tyr Ile Pro Arg Glu Ile
90 290 295 300
91 Leu Trp Gly His Arg Phe His Asp Val Leu Glu Val Lys Arg Lys Tyr
92 305 310 315 320
93 Tyr Lys Val Asn Cys Leu Gln Phe Glu Gly Ser Val Glu Val Tyr Ala
94 325 330 335
95 Pro Phe Cys Ser Ala Lys Gln Leu Asp Trp Lys Asp Gln Gln Leu Asn
96 340 345 350
97 Asn Leu Glu Lys Thr Ser Pro Ala Arg Gly Ser Cys Asn Ser Asp Thr
98 355 360 365
99 Asn Thr Arg Arg Arg Ser Phe Ser Ala Val Ala Val Val Ser Ser Cys
100 370 375 380
101 Glu Asn Pro Glu Glu Thr Val Leu Ser Pro Gln Asp Glu Cys Lys Glu
102 385 390 395 400
103 Met Pro Tyr Gln Lys Ala Leu Leu Thr Leu Asn Arg Ile Ser Met Glu
104 405 410 415
105 Ser Gln Met
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 200

Input Set : A:\PTO.AMC.txt
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111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Targeting vector
117 <400> SEQUENCE: 3
118 agctacagga tcgtcaatgt ggactccaaa tatccaggct atcctccaga gcatgccatc 60
119 gctgagaaga gaagagcaag aaggcgcttgc tccacaaag atggcagctg taatgtgtac 120
120 tttaaacaca tttttggaga atgggggagc tacatggttg atattttac cactcttgtg 180
121 gataccaagt ggcgccatat 200
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 200
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Targeting vector
131 <400> SEQUENCE: 4
132 cgaagagtgc tctgtggctg tactgacagt gatccttcag tccatcctca gctgcatcat 60
133 aaacacccatc atcattggag cagcccttggc aaagatggca actgcccggaa agagagccca 120
134 gaccatacgc ttcaagctatt ttgcctcat tggtatgaga gacgggaagc ttgcctcat 180
135 gtggcgatata ggtgacttcc 200

VERIFICATION SUMMARY
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date